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DESCRIPTORS: *Frequency multipliers, *Phase
measurement, Frequency shift, Stability.

A method is proposed for investigating experimentally
the phase stability of frequency multipliers. This tech-
nique makes it possible to detect and measure the
widening of spectrum lines resulting from fast random
variations in multipliers and determine systematic
phase losses resulting from slow variations of circuit
parameters. Relative frequency shift of $\pm 10^{-11}$ to
 $\pm 5 \times 10^{-13}$ due to a slow variation of circuit param-
eters was measured in preliminary experiments.
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